

Section 510—Protective Platforms

510.1 General Description

This work consists of furnishing materials, erecting, maintaining, removing, and disposing of protective platforms that provide additional safety for underpassing traffic during construction of grade separation structures.

510.1.01 Definitions

General Provisions 101 through 150.

510.1.02 Related References

General Provisions 101 through 150.

510.1.03 Submittals

A. Location of Vertical Clearance Signs

The Engineer will approve the exact location of vertical clearance signs.

510.2 Materials

General Provisions 101 through 150.

510.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

510.3 Construction Requirements

510.3.01 Personnel

General Provisions 101 through 150.

510.3.02 Equipment

General Provisions 101 through 150.

510.3.03 Preparation

General Provisions 101 through 150.

510.3.04 Fabrication

General Provisions 101 through 150.

510.3.05 Construction

Construct and maintain the protective platform so that no object or liquid will fall from the bridge superstructure or the platform to the roadway below. This protection is the Contractor's liability and responsibility.

Place protective platforms under spans that pass over pedestrian or vehicular traffic lanes. Place the platforms immediately after setting the beams and before working on the span.

Place the platforms immediately after the beams are set and before performing other work on the span.

A. Meet Platform Specifications

Construct protective platforms to meet the following specifications:

1. Platforms shall extend at least 3 ft (1 m) beyond each side of the outside limits of the structure.
2. Platforms shall completely cover the length of the spans over the traveled ways.
3. Platforms shall maintain the minimum vertical clearance shown on the Plans over the traffic lanes.

B. Construct and Remove Protective Platforms

Construct and remove the platforms as follows:

1. Post W 12-2 signs stating "Low Clearance, (the dimension shown on the Plans)" in the following locations so traffic approaching the bridge site from both directions can see them.
 - Approximately 500 and 1,000 ft (150 and 300 m) from each side of the bridge
 - On the exterior sides of the bridge superstructure

Section 510—Protective Platforms

2. Construct the protective platforms to meet the specifications listed in [Subsection 510.3.05.A, “Meet Platform Specifications”](#) and follow these requirements:
 - a. Keep protective platforms in place until all superstructure work, including painting, final rubbing, and clean-up, is complete.
 - b. If the platforms fail to provide the required protection, stop operations on the spans affected and take remedial action. Do not begin operations again until the platforms are repaired.
3. Remove the protective platforms and the W 12-2 signs.
The platforms remain the Contractor’s property.

C. Consider Other Protective Platforms

The following may be considered satisfactory protective platforms under the following conditions:

1. **Stay-in-Place Metal Deck Forms.** Stay-in-place metal deck forms are satisfactory protective platforms between girders.
Below the deck-form elevation, however, protective platforms are required for edge beam, diaphragm, or other construction.
2. **Precast, Prestressed Concrete Deck Panels.** Precast, prestressed concrete deck panels are satisfactory protective platforms under the same conditions as stay-in-place metal deck forms.
3. **Overhang Brackets.** Overhang brackets are satisfactory protective platforms under the following conditions:
 - a. The brackets are floored at least 12 in (300 mm) beyond the outside edge of a slab with a handrail.
 - b. The brackets have a 8 in (200 mm) curb board.
 - c. The Contractor uses temporary mobile or hanging protective platforms when erecting and removing the overhang from the work.

510.3.06 Quality Acceptance

A. Enforcing Compliance

If the Contractor fails to comply with the requirements in this Specification, the Engineer will shut down the Contractor’s operations. The Engineer may also withhold any monies until these requirements are met.

510.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

510.4 Measurement

This work is not measured separately for payment.

510.4.01 Limits

General Provisions 101 through 150.

510.5 Payment

The cost of protective platforms will be included in the overall bid submitted. This price includes furnishing materials and erecting, maintaining, removing, and disposing of the platforms.

510.5.01 Adjustments

General Provisions 101 through 150.